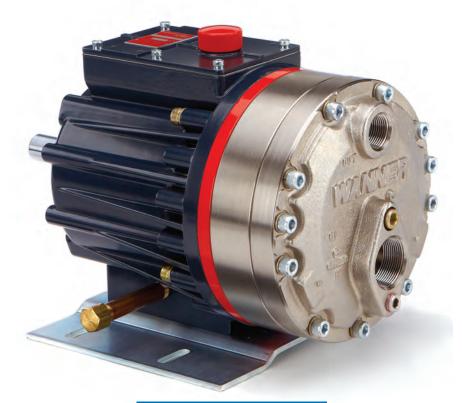


Versatile, Reliable Pumps for a Wide Range of Applications



H25 Series

- Pumps the full spectrum of low-to-high viscosity fluids.
- Features a seal-less design and horizontal disk check valves that enable the pump to handle abrasives and particulates that might damage or destroy other types of pumps.
- Simple, compact design reduces initial investment and lowers maintenance costs.
- Operational efficiencies reduce energy costs.
- Able to run dry without damage (or additional maintenance) to the pump in case of accident or operator error.
- Tolerates non-ideal operating conditions.
- Minimizes maintenance and downtime because there are no mechanical or dynamic seals, packing, or cups to leak, wear, or replace.



H25 Series

Maximum Flow Rate: 20.0 gpm (75.9 l/min)

Maximum Pressure: 1000 psi (69 bar) for Metallic Pump Heads

350 psi (24 bar) for Non-metallic Pump Heads





H25 with Brass pump head.

H25 with Polypropylene pump head.

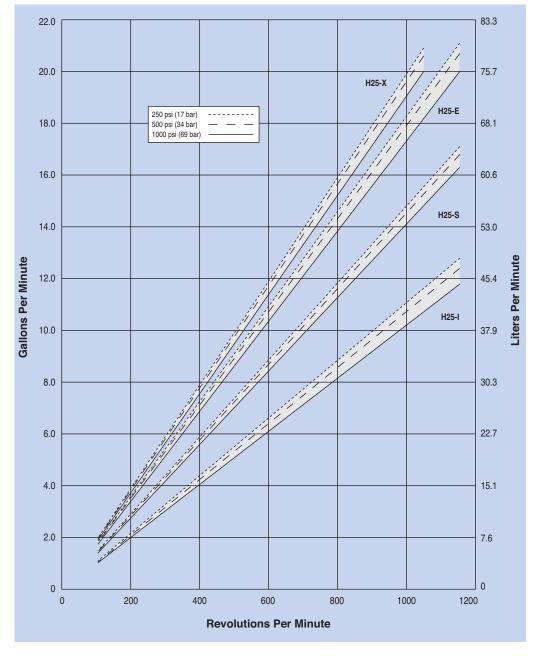
H25 with 316L Stainless Steel pump head and ANSI flanges.

H25 Series Performance

Capacities

low	Max.		. Flow	Pressure
Model	Input rpm	@ 1000 p gpm	si (69 bar) I/min	Maximum Inlet Pressure 250 psi (17 bar)
H25-X	1050	20.0	75.7	Maximum Discharge Pressure
H25-E	1150	20.0	75.9	Metallic Pump Heads:
H25-S	1150	16.2	61.5	1000 psi (69 bar)
H25-I	1150	11.8	44.7	Non-metallic Pump Heads: 250 psi (17 bar) Polypropylene 350 psi (24 bar) PVDF

Maximum Flow at Designated Pressure

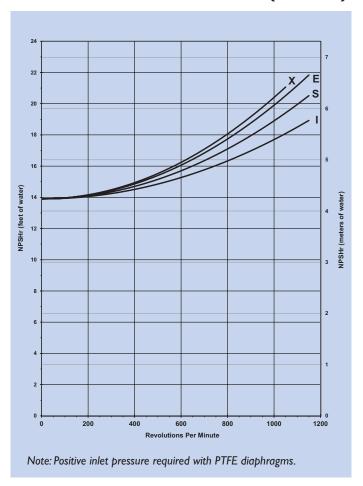




H25 Series Specifications

Flow Capacit	ies @1000	nsi (60 har)				
Model	rpm	gpm	l/min			
H25-X	1050	20.0	75.7			
H25-E	1150	20.0	75.9			
H25-S	1150	16.2	61.5			
H25-I	1150	11.8	44.7			
Delivery @1						
Model	gal/rev	liters/rev				
H25-X	0.0190	0.0721				
H25-E	0.0174	0.0660				
H25-S	0.0141	0.0535				
H25-I	0.0103	0.0389				
Maximum Di	scharge Pre	ssure				
Metallic Head	ls:	1000 psi (69 bar)				
Non-metallic	Heads:	250 psi (17 bar) Poly	rpropylene			
		350 psi (24 bar) PVD)F			
Maximum In	let Pressure	250 psi (17 bar)				
Maximum Op	erating Ten	1perature				
Metallic Head	ls:	250°F (121°C) - Co	nsult factory for correct			
		component selection f	or temperatures from 160°F			
		(71°C) to 250°F (12	21°C).			
Non-metallic	Heads:	140°F (60°C)				
Maximum So	lids Size	800 microns				
Inlet Port		1-1/2 inch NPT				
		150lb ANSI RF flange)			
Discharge Po	rt	1 inch NPT				
		600lb ANSI RF flange				
Shaft Diamet		1-1/8 inch (28.6 mm)				
Shaft Rotatio	n	Reverse (bi-directional)				
Bearings		Tapered roller bearings				
Oil Capacity		3.3 US quarts (3.1 liters)				
Weight						
Metallic Head		125 lbs. (56.8 kg)				
Non-metallic	Heads:	90 lbs. (40.9 kg)				

Net Positive Suction Head (NPSHr)



Self-priming:

Each Hydra-Cell pump has different lift capability depending on model size, cam angle, speed, and fluid characteristics. To ensure that your specific lift characteristics are met, refer to the inlet calculations regarding friction, and acceleration head losses in your Hydra-Cell Installation & Service Manual. Compare those calculations to the NPSHr curves above.

Calculating Required Power

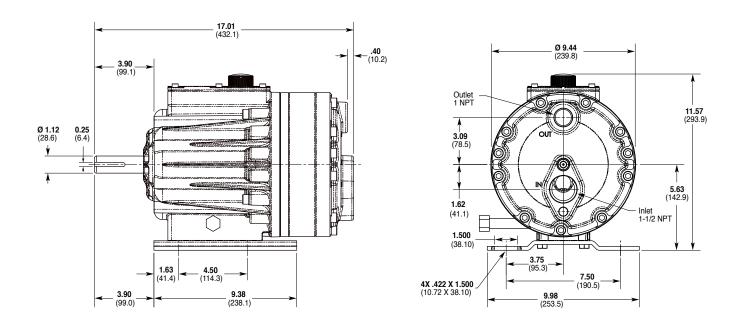
$$\frac{50 \times \text{rpm}}{63,000} + \frac{\text{gpm} \times \text{psi}}{1,460} = \text{electric motor hp}$$

$$\frac{50 \times \text{rpm}}{84,428} + \frac{\text{l/min} \times \text{bar}}{511} = \text{electric motor kW}$$

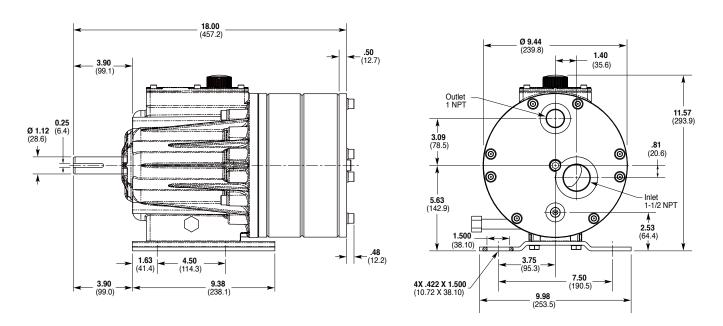
When using a variable frequency drive (VFD) controller, calculate the hp or kW at minimum and maximum pump speed to ensure the correct hp or kW motor is selected. Note that motor manufacturers typically de-rate the service factor to 1.0 when operating with a VFD.

H25 Series Representative Drawings

H25 Models with Metallic Pump Head Inches (mm)



H25 Models with Non-metallic Pump Head Inches (mm)



Note: Contact factory for additional drawings of specific models and configurations.

H25 Series Adapters/Valves

Pump/Motor Adapter Inches (mm)

Part Number: A04-041-1200

For: 182TC, 184TC, 213, 215TC, 254 and

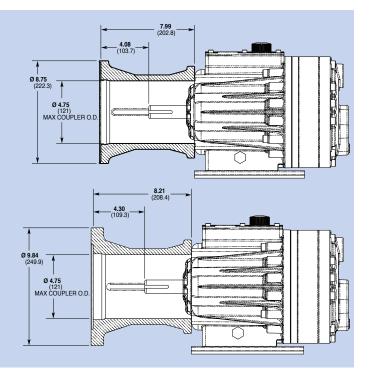
256TC frame motors.

Metric adapter available - consult factory.

Part Number: A04-042-1200

For: 284TC and 286TC frame motors.

Metric adapter available - consult factory.



Valve Selection

A seal-less C63 Pressure Regulating Valve is recommended for Hydra-Cell H25 pumping systems, especially for highpressure requirements or when handling dirty fluids.



A C23 Pressure Regulating Valve provides a capable, lower-cost alternative to C63 valves for Hydra-Cell H25 pumping systems.





For complete specifications and ordering information, consult the Hydra-Cell Master Catalog.

H25 Series How to Order

Ordering Information													
	1	2	3	4	5	6	7	8	9	10	11	12	
													J

A complete H25 Series Model Number contains 12 digits including 9 customer-specified design and materials options, for example: H25XKCGNNECA.

Digit	Order Code	Description
1-3	Code	Pump Configuration
1-5	H25	Shaft-driven (NPT Ports or ANSI Flanges)*
		*Pump/motor adapters ordered separately.
		See previous page.
4		Hydraulic End Cam
	Х	Max 20.0 gpm (75.7 l/min) @ 1050 rpm
	E	Max 20.0 gpm (75.9 l/min) @ 1150 rpm
	S	Max 16.2 gpm (61.5 l/min) @ 1150 rpm
	1	Max 11.8 gpm (44.7 l/min) @ 1150 rpm
5		Pump Head Version
	K	Kel-Cell NPT Ports
	M	Machined housing to accept C-face adapter/gearbox
6		Pump Head Material
	В	Brass
	C	Cast Iron (Nickel-plated)
	G	Duplex Alloy 2205 (with Hastelloy C followers & follower screws)
	M	PVDF (with Hastelloy C followers & follower screws)
	N	Polypropylene (with Hastelloy C followers & follower screws)
	Р	Polypropylene (with 316L Stainless Steel followers & follower screws)
	R	316L Stainless Steel ANSI flange class 150 x 600
	S	316L Stainless Steel
	T	Hastelloy CW12MW
7		Diaphragm & O-ring Material
	Α	Aflas diaphragm / PTFE o-ring
	E	EPDM (requires EPDM-compatible oil - Digit 12 oil code C)
	G	FKM
	J	PTFE (available with E and S cams only; 1050 rpm max.)
	Р	Neoprene
	Т	Buna-N
ο	•	Valve Seat Material
8	C	
	C	Ceramic Turneten Carbida
	D	Tungsten Carbide
	Н	17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C

Digit	Order Code	Description
9		Valve Material
	C	Ceramic
	D	Tungsten Carbide
	F	17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C
10		Valve Springs
	E	Elgiloy
	Н	17-7 Stainless Steel
	T	Hastelloy C
11		Valve Spring Retainers
	C	Celcon
	Н	17-7 Stainless Steel (used with metallic heads only)
	M	PVDF
	P	Polypropylene
	T	Hastelloy C (used with metallic heads only)
	Υ	Nylon (Zytel)
12		Hydra-Oil
	Α	10W30 standard-duty oil
	В	40-wt for continuous-duty oil (use with 316L SST or Hastelloy CW12MW pump head - standard)
	C	EPDM-compatible oil
	E	Food-contact oil
	G	5W30 cold-temp severe-duty synthetic oil
	Н	15W50 high-temp severe-duty synthetic oil
H25	Pump Ho	ousing is standard as Cast Aluminum.

H25 Pump Housing is standard as Cast Aluminum. Upgrade to Ductile Iron available.

Consult the Hydra-Cell Master Catalog for:

- Motors, bases, couplings and other pump accessories
- Hydra-Oil selection and specification information
- Design considerations, installation guidelines, and other technical assistance in pump selection





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